



CART Measurement System using Reflector

CATR (Compact Antenna Test Range)

- ✓ Using reflectors to collimate the plane wave, the **measurement distance required for general DFF (Direct Far Field) is reduced** for large aperture antennas.
- ✓ The surface roughness Ra of the metal curved surface is 50nm, and high plane wave characteristics are realized



Specification

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Frequency ※1		18 to 300GHz
Feeder Antenna		Corrugated feed Horn Antennas
Reflector		600mm x 600mm (Option: 1200mm x 1200mm)
Quiet Zone (QZ)		±150mm (1200mm x 1200mm Model: ±300mm)
Measurement Distance		1000mm (from the center of the reflector)
QZ Quality	Phase	±8.0deg.
	Amplitude	±1.0dB
Size ※2		W x D x H = 1800 x 1200 x 1800mm

※1 The frequency range depends on the feeder antenna

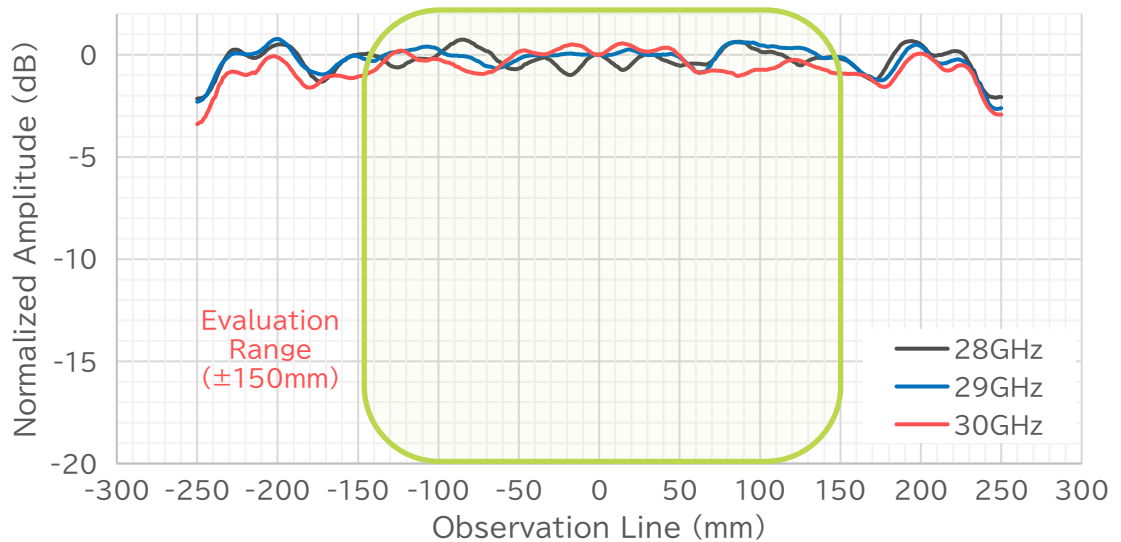
※2 Protrusions excluded. Size can be customized upon request



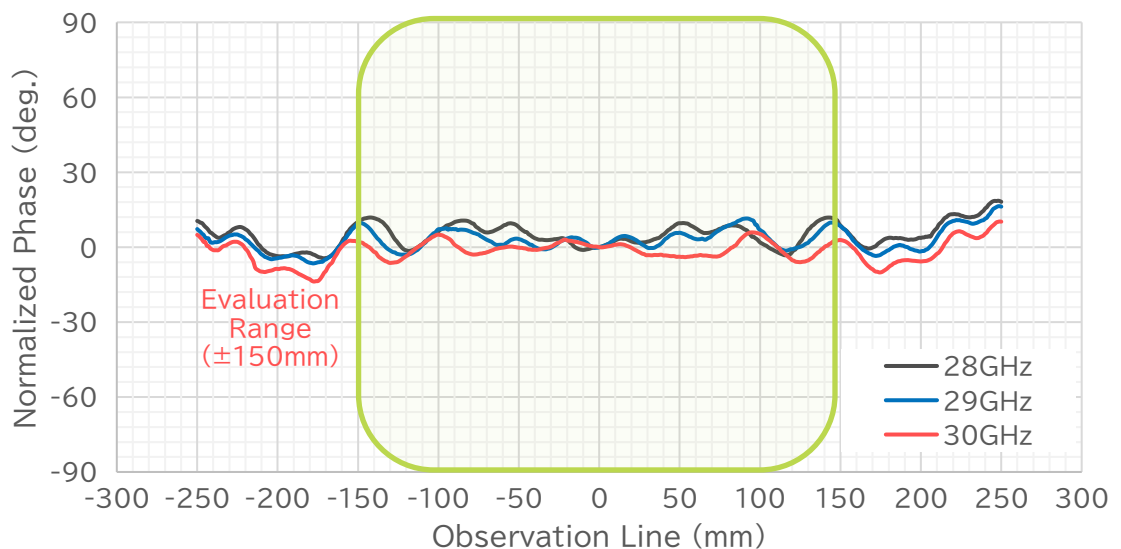
QZ Measurement Results (30GHz)

- ✓ The Pk-Pk value of the amplitude phase is measured as QZ Quality within a range of 1/2 of the aperture surface of the reflector (= ±150mm) ※3

QZ Quality	Ripple(Typ.)	
	Amplitude	Phase
28GHz	±0.86dB	±7.54deg.
29GHz	±0.75dB	±7.24deg.
30GHz	±0.81dB	±6.10deg.



Amplitude Characteristics



Phase Characteristics

※3 Please contact us for information on other frequency